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(21)Application 09-343562 (71) FUISZ TECHNOL LTD

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## (54) DRUG DELIVERY SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a drug delivery system having an upper layer, a control membrane forming an internal chamber and a lower layer, housing an interferon in the chamber and capable of locally and subcutaneously delivering a drug to a skin cancer, a lesion and infectious disease without introducing the drug into the blood stream.

SOLUTION: This percutaneous drug delivery system 10 is a multilayered polymeric patch having an upper layer 20 and a lower layer 30. The upper layer 20 is preferably prepared from an impermeable polymer or a foil in order to prevent the drug passing through the tip of the delivery system 10 from leaking. The lower layer 30 functions as a release sheet covering one or more regions of a bonding material 40. When the delivery system 10 is stuck to skin, the lower layer 30 is arranged in directly adjacent to the skin. The upper layer 20 is sealed with a control membrane 50 so as to create the first chamber 60 and the second chamber 70. The drug is preferably

selected from griseofulvin, ketoconazole, etc.

